

## Wide Area Information Servers™

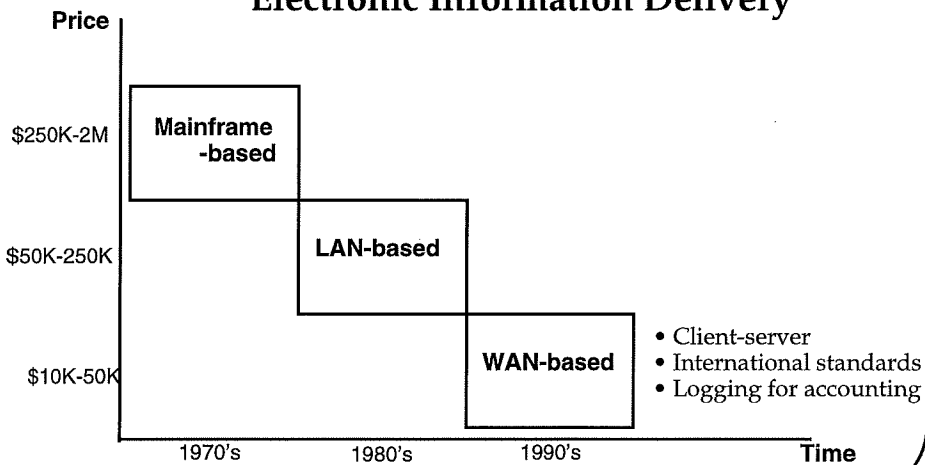
### Publishing Systems and Services

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Wide Area Information Servers, Inc  
Spring, 1994

Spring '94

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## Electronic Information Delivery



Spring '94

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## **Online Publishing Benefits vs. CD ROM**

- Continuous updates
- No 600 meg size limits
- Interact with other distributed services
- No pre-consumption cost of printing and distributing
- Publisher keeps usage statistics

## **Online Publishing Benefits vs. AOL, CompuServe, etc.**

- One service has access to multiple markets
  - AOL, Delphi Internet gateways
  - LAN distribution
  - Cable systems
  - International markets
- Publisher sets their own terms
- Publisher gets greater % of revenue

## **The Networked Table of Contents**

- **Browsing**
- **Hierarchical**
- **Editor constructed**
- **New:**
  - **Cross-machine links to other Tables of Contents**
  - **Ties to searches, library systems, etc.**
  - **Available on every page**

## **The Networked Page**

- **Hypertext links: clickable footnote (eg. WWW)**
- **Dynamic Illustrators: 3-D rotatable, motion, simulation (eg. Interleaf)**
- **Slower to flip pages: seconds to minutes**
- **New:**
  - **Publisher can control their public face**
  - **Intimate user/publisher relationship**
  - **"Information Interface" promotes usage**

## Flipping Page Speeds

	Size	Over modem	Over Internet	Over Univ Internet
<b>ASCII</b>	2KB	2sec	1sec	1sec
<b>Formatted</b>	30-80KB	30-80sec	5-13sec	1-2sec
<b>w/Picture</b>	150KB	3min	25sec	5sec

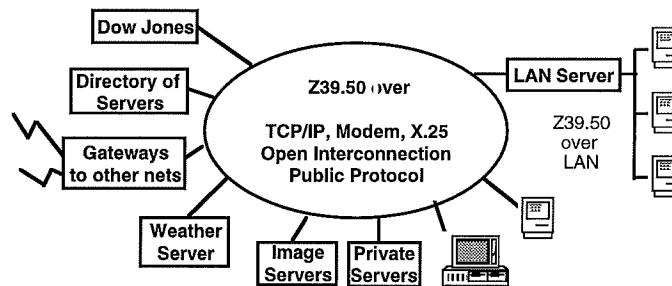
## Networked Index: Searching

- When you know what you are looking for
- Manual indexing ———> full indexing
- Advanced navigation:
  - topic clustering,
  - query analysis,
  - relevance feedback
- Interactive through gigabytes

## All Together Now

- Compelling, richly linked pages
- Editorial classification function adds value
- Dynamic updates
- Deep, constantly changing databases
- Links to external resources

## Wide Area Information Server Architecture



- Point-and-click interface to Worldwide Information
- Client -----> Protocol -----> Server

## Speed of Searching

	Size	Speed
1 Book	1MB	<1 sec
1 yr of Wall St Jnl	100MB	2 sec
1 Enc Brit	1GB	2-5 sec
1 Lib of Congress	20TB	? sec

## Wide Area Information Servers, Inc.

### Internet Publishing

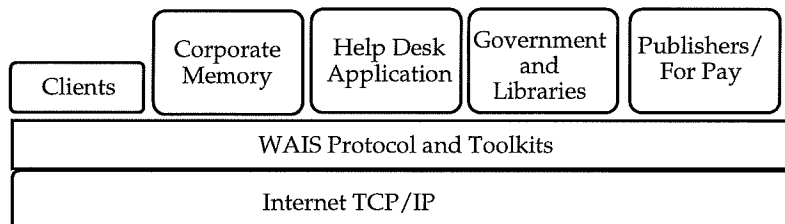
Current status

## WAIS Inc: Network Publishing

- Founded June 1992 from 1990 Consortium of Apple / Thinking Machines / DowJones / KPMG
- Technology: 2 Founders from Supercomputing
- Internet: Experience in Building an Internet System
- Publishing: 2 Founders from Publishing

## WAIS Inc. Position

- WAIS Inc. Brings:
  - Application Protocols
  - Database Server Technology
  - Wide Area Network Expertise
- Work with Industry Partners

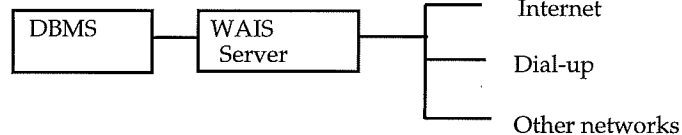


## WAIS Inc Markets and Partners

- Large Corporations
  - Fujitsu, Intel
  - Perot Systems, Mitre
- Publishers
  - Dow Jones, Encyclopedia Britannica, Scholastic Inc
  - Sun Microsystems, Novell
- Government
  - NASA, Defense, Intelligence, GPO
- Libraries
  - Library of Congress, Rice University

## WAIS Inc Software Products

### WAIS Server for Unix



\$15k-50k

Services and Training



## **WAIS Inc Server**

- **Mixed Natural Language and Boolean**
- **Accounting for Billing**
- **Network Security**
- **Data in original formats**
- **Popular Unix Platforms**

## **Future Directions**

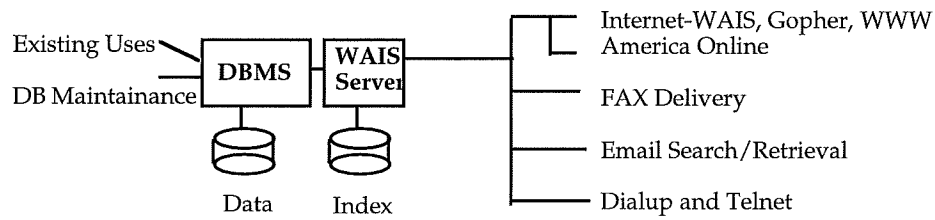
- **Servers: Integrate Gopher, Web, and WAIS Capabilities**
- **Protocols: Working on Standards Committees and Protocol Toolkits**
- **Online Services: Service Bureau of Publishers**

## 1994 Plans

- **Server 2.0 Release: Integrate Browsing, DBMS, and Security**
- **Protocol Toolkit: Z39.50-v2, URL, (RSA or Kerberos), etc**
- **For-Pay Services on the Internet**

## Some WAIS Systems

## Defense Technical Information Center WAIS System

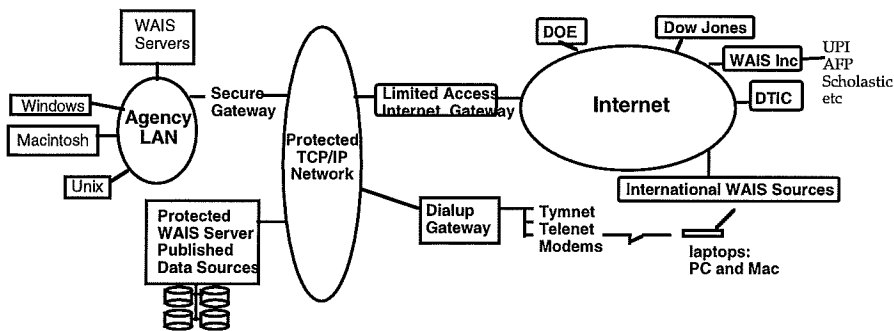


- Project Just Starting (due within 1 year)
- Increased access to Databases and Documents

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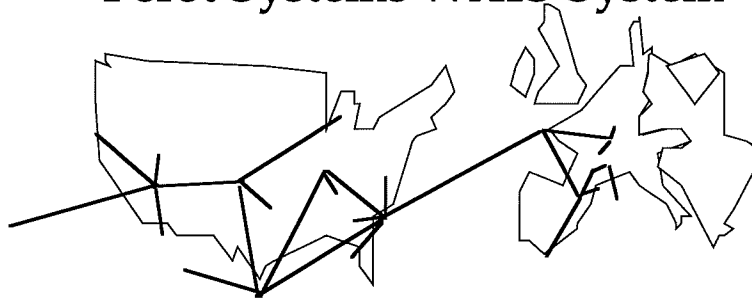
## US Intelligence Agencies Open Source WAIS System



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## Perot Systems WAIS System



- **Corporate Information**
  - Resumes, Company Policies, Presentations, Contracts, Proposals, Phone book
- **Published Info**
  - CDROM's, Internet resources